

What is claimed is:

1. In a development system including a developer transport adapted for depositing developer material on an imaging surface having an electrostatic latent image thereon, comprising:

a housing defining a chamber storing a supply of developer material comprising carrier and toner;

a donor member, mounted partially in said chamber and spaced from the imaging surface, for transporting developer on an outer surface thereof to a region opposed from the imaging surface, said donor member having a magnetic assembly having a plurality of poles, a sleeve, enclosing said magnetic assembly, rotating about said magnetic assembly;

a trim bars positioned about said donor roll at a predefined position and spacing around said donor roll, said trim bar including a vibrating member for disrupting the developer bed and reducing developer bed height of said developer material on said donor member to a predefined developer bed height within the development nip.

2. The development system of **claim 1**, wherein said carrier comprises soft carrier material.

3. The development system of **claim 1**, wherein said magnetic assembly has a pole spacing between 1 mm to 1cm.

4. The development system of **claim 3**, wherein said sleeve has a thickness between 100 to 350 microns.

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5. The development system of **claim 1**, wherein each of said plurality of trim bars comprised of a shaped metal blade fastened to the wall of the development housing. These trim bars may be attached to or comprised of a piezoelectric vibrator which can be electrically driven with a high frequency driving power source, oscillating at between 1 and 100 KHz to impart vibrational energy.

6. The development system of **claim 1**, wherein said predefine developer bed height is between five and twenty carrier bead diameters, with a preferred value being at ten carrier bead diameters. Presently, carrier bead size ranges from 30 microns to 50 microns. In the past, carrier bead sizes up to 80 microns have been used.

7. The development system of **claim 1**, wherein said donor member is rotated between 200 to 4000 rpm.

8. The development system of **claim 1**, further comprising means for applying an oscillating electric field between said donor member and imaging surface.

9. The development system of **claim 8**, wherein said oscillating electric field is between X and Y.

10. The development system of **claim 1**, wherein said vibrating member vibrates between 1 and 100 KHz.

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